

Amendments to the CLAIMS

Please amend claims 1-7 and add claims 8-10 as set forth in this listing of claims, which replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A process for controlling a fuel cell system comprising a fuel cell, which generates power by ~~supplying reacting~~ anode gas and cathode gas supplied to ~~into~~ the fuel cell, a compressor which controls ~~the an~~ amount of the cathode gas to be supplied ~~into to~~ the fuel cell, and a pressure control valve which controls a pressure of the cathode gas, ~~pressure of the fuel cell and which,~~ wherein the pressure control valve is provided ~~on the~~ downstream of a cathode of the fuel cell,

said process comprising:

changing an amount of the ~~supply~~ cathode gas supplied to the fuel cell by said compressor during ~~the a~~ transition period of said fuel cell, and thereafter changing ~~the an~~ opening of said pressure control valve, wherein an amount of power generated from the fuel cell is changed during the transition period.

2. (currently amended) A process for controlling a fuel cell system, comprising:
a flow amount feedback control step which controls ~~the a~~ flow amount of ~~the a~~ cathode gas supplied ~~into to~~ a fuel cell to be a prescribed value; and
a pressure feedback control step which controls ~~the a~~ pressure of the ~~fuel cell~~ cathode gas to be a prescribed value,

said feedback steps being stopped during ~~the a~~ transition period of the fuel cell, wherein an amount of power generated from the fuel cell changes during the transition period.

3. (currently amended) A fuel cell system, comprising:
a fuel cell, which generates power by ~~supplying reacting~~ anode gas and cathode gas ~~into~~ supplied to the fuel cell,
a compressor which controls ~~the an~~ amount of the cathode gas ~~to be~~ supplied ~~into to~~ the fuel cell,

a pressure control valve which controls ~~the~~ a cathode gas pressure of the fuel cell and which is provided ~~on the~~ downstream of a cathode of the fuel cell,

airflow gas flow control means, which controls the airflow cathode gas flowing toward ~~the cathode~~ an inlet side of the cathode to be a target airflow gas flow amount corresponding to a target power generation amount of the fuel cell by controlling ~~the~~ a revolution number of said compressor, and

air gas pressure control means, which controls ~~the air~~ a cathode gas pressure at the ~~cathode~~ inlet to be a target air gas pressure corresponding to ~~the~~ a target airflow gas flow amount by controlling ~~the~~ an opening of said pressure control valve at ~~the~~ a stationary state, and which controls the pressure control valve corresponding to ~~the~~ a change in the airflow gas flow amount ~~detected from said flow sensor~~ to thereby control the air cathode gas pressure to be the target air gas pressure during ~~the~~ a transition period, wherein an amount of power generated from the fuel cell is changed during the transition period while the amount of power generated from the fuel cell is not changed at the stationary state.

4. (currently amended) The fuel cell system as claimed in Claim 3, wherein said air gas pressure control means during the transition period controls the opening of said pressure control valve depending upon the airflow gas flow amount ~~detected from the flow sensor~~ and upon the target air gas pressure.

5. (currently amended) The fuel cell system as claimed in Claim 3, wherein said air gas pressure control means during the transition period is kept operating until said airflow gas flow amount reaches the target airflow gas flow amount.

6. (currently amended) The fuel cell system as claimed in Claim 4, wherein said air gas pressure control means during the transition period is kept operating until said airflow gas flow amount reaches the target airflow gas flow amount.

7. (currently amended) A process for controlling a fuel cell system comprising a fuel cell, which generates power by ~~supplying~~ reacting anode gas and cathode gas ~~into~~ supplied to the fuel cell, a compressor which controls the amount of the cathode gas to be supplied ~~into~~ to the fuel cell, and a pressure control valve which controls a pressure of the cathode gas, ~~pressure~~

~~of the fuel cell and which,~~ wherein the pressure control valve is provided on the downstream of a cathode of the fuel cell,

said process comprising:

controlling ~~the~~ a power generation amount of the fuel cell by controlling the flow amount of the cathode gas and the pressure of the ~~air~~ cathode gas compressively transferred into ~~the~~ a cathode inlet side of the fuel cell, and

controlling said ~~air~~ pressure of the cathode gas to be a target ~~airflow~~ gas flow amount corresponding to the detected ~~airflow~~ gas flow amount, which is gradually changed, during ~~the~~ a transition period of said fuel cell, wherein an amount of power generated from the fuel cell is changed during the transition period.

8. (new) The process as claimed in Claim 1, wherein a pressure feedback control operation for controlling the pressure of the cathode gas to be a prescribed value is avoided in the transition period of the fuel cell.

9. (new) The process as claimed in Claim 1, wherein the cathode gas pressure is controlled depending upon the gas flow amount in the transition period.

10. (new) The process as claimed in Claim 1, wherein a signal for controlling the pressure of the cathode gas is once slightly decreased at an initial stage of increasing the air flow amount and thereafter it is increased following an increase of the cathode gas flow amount.